

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/095174 A1

(51) International Patent Classification⁷: **B61L 25/02**

(21) International Application Number:
PCT/EP2005/002372

(22) International Filing Date: 3 March 2005 (03.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/550,757 5 March 2004 (05.03.2004) US
04447215.7 29 September 2004 (29.09.2004) EP

(71) Applicant (for all designated States except US): **ALSTOM BELGIUM S.A.** [BE/BE]; Rue Cambier Dupret 50-52, B-6001 Charleroi (BE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ROUSSEAU, Michel** [BE/BE]; Rue de Liège 72, B-4800 Verviers (BE).

(74) Agents: **BLOT, Philippe et al.**; Cabinet Lavoix, 2, Place d'Estienne d'Orves, F-75441 Paris (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

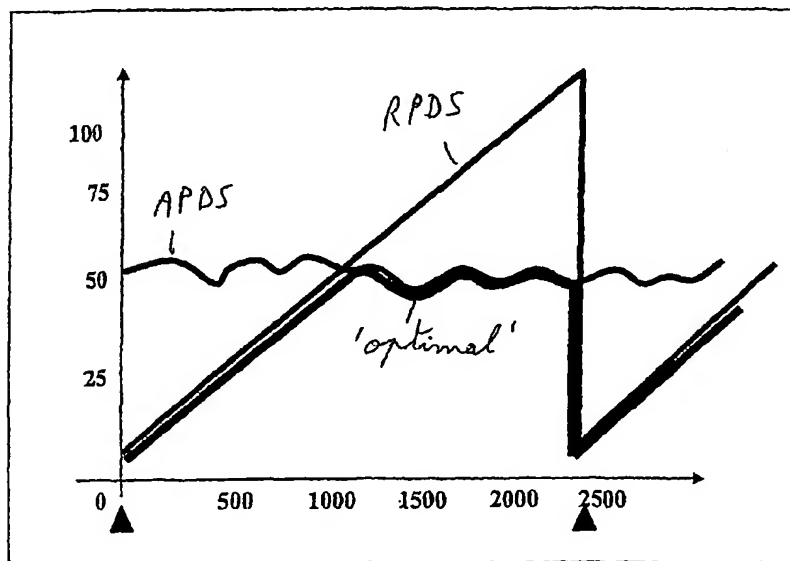
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **METHOD AND SYSTEM FOR DETERMINING THE POSITION OF AN OBJECT MOVING ALONG A COURSE**



(57) Abstract: The present invention is related to a method for determining the location and/or the positioning of an object, in particular a vehicle such as a train, moving along a known course, comprising the following steps : - determining an absolute position of the object with a first confidence interval, - determining a relative position of the object with a second confidence interval, - selecting the smaller confidence interval among the first and the second confidence interval, - determining said location and/or positioning of the object by means of the position corresponding to said smaller confidence interval.